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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/750,476	12/31/2003	Greg R. Black	CS23369RL	9805	
²⁰²⁸⁰ MOTOROLA I	7590 06/14/200° NC		EXAMINER		
600 NORTH US HIGHWAY 45			JOSEPH, JAISON		
ROOM AS437 LIBERTYVILI	LE, IL 60048-5343		ART UNIT	PAPER NUMBER	
	,		2611		
			MAIL DATE	DELIVERY MODE	
			06/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)	
Office Action Summary		10/750,476	BLACK ET AL.	
		Examiner	Art Unit	
	•	Jaison Joseph	2611	
	The MAILING DATE of this communication app	· ·	1 ==	
Period fo	or Reply		·	
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAMPINION OF THE MAILING TH	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re vill apply and will expire SIX (6) MON' cause the application to become ABA	ATION. ply be timely filed 'HS from the mailing date of this communication NDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 31 De	ecember 2003	•	
		action is non-final.		
<i>'</i> —	Since this application is in condition for allowar		ers, prosecution as to the merits is	s
	closed in accordance with the practice under E		•	
Dispositi	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-14 and 23 is/are pending in the app 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-14 and 23 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.		
Applicat	ion Papers			
9) 🗌	The specification is objected to by the Examine	r.		
10)	The drawing(s) filed on is/are: a) acce	epted or b) 🗌 objected to t	y the Examiner.	
	Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	` '	
	Replacement drawing sheet(s) including the correct	•	· · ·	d).
11)[_]	The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152.	
Priority (ınder 35 U.S.C. § 119		•	
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachmen		_		
2) Notice	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	Paper No(s	ummary (PTO-413) //Mail Date formal Patent Application 	

DETAILED ACTION

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 – 9, 14 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Chen et al (USPAP 2002/0136183).

Regarding claim 1, Chen et al teach a method in a transmitter for data collision avoidance in an uncoordinated frequency hopping communication system (see abstract) comprising: determining that a first data set to be sent to a first device and a second data set to be sent to a second device are scheduled to be transmitted simultaneously on a first frequency (see paragraph 0019); transmitting one of the first data set and the second data set on the first frequency (see paragraph 54, 58, and 68); delaying transmission of an other of the first data set and the second data set; and transmitting the other of the first data set and the second data set on a second frequency (see paragraph 54, 58, 68).

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Regarding claim 2, which inherits the limitations of claim 1, Chen et al further teach delaying transmission of the second data set temporally to the next scheduled transmission time (see paragraph 54, 58, 68).

Regarding claim 3, which inherits the limitations of claim 2, Chen et al further teach wherein the first frequency is one of a plurality of frequencies of a first frequency hopping pattern (see paragraph 8 and 68).

Regarding claim 4, which inherits the limitations of claim 2, Chen et al further teach wherein the second frequency is one of a plurality of frequencies of a second frequency hopping pattern (see paragraph 8 and 68).

Regarding claim 5, which inherits the limitations of claim 3, Chen et al further teach wherein the second frequency is one of a plurality of frequencies of a second frequency hopping pattern (see paragraph 8 and 69).

Regarding claim 6, which inherits the limitations of claim 5, Chen et al further teach further comprising transmitting the second data set on a frequency which is sequentially next in a frequency hop-set (see paragraph 68 and 69).

Regarding claim 7, which inherits the limitations of claim 3, Chen et al further teach further comprising, prior to, transmitting one of the first data set and the second data set, randomly selecting either the first data set or the second data set to be transmitted first (see paragraph 19, Chen et al teach delaying (stalling) at least one of the signals which interpreted as randomly selected further).

Regarding claim 8, which inherits the limitations of claim 7, Chen et al further teach wherein transmitting one of the first data set and the second data set further

comprises transmitting the randomly selected data set of the first or second data set during a scheduled transmission frame and on a scheduled transmission frequency, and wherein delaying further comprises delaying the data set of the first or second data set not randomly selected to the next scheduled transmission frame (see paragraph 54, 58, 68).

Regarding claim 9, which inherits the limitations of claim 8, Chen et al further teach wherein transmitting the other of the first data set and the second data set further comprises transmitting the data set not randomly selected at the next scheduled frame and on the next scheduled transmission frequency (see paragraph 54, 58, 68).

Regarding claim 14,Chen et al teach a method in a transmitter for data collision avoidance in an uncoordinated frequency hopping communication system comprising (see abstract): determining that a first data set to be sent to a first device and a second data set to be sent to a second device are scheduled to be transmitted simultaneously on a first frequency (see paragraph 0019); transmitting the first data set on the first frequency; and discarding the second data set (see paragraph 54, 58, 68 and 80).

Regarding claim 23, Chen et al teach a method in a transmitter for data collision avoidance in a frequency hopping communication system comprising (see abstract): determining that a first data set to be sent to a first device and a second data set to be sent to a second device are scheduled to be transmitted simultaneously on a first uncoordinated frequency hopping frequency (see paragraph 19); transmitting the first data set on the first frequency hopping frequency (see paragraph 54, 58, 68); delaying transmission of the second data set; transmitting the second data set on a second

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frequency hopping frequency(see paragraph 54, 58, 68); transmitting a third data set to a third device on a first coordinated frequency hopping frequency (see paragraph 54, 58, 68).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10 – 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al (USPAP 2002/0136183) in view of Orava (USPAP 2002/0071477).

Regarding claim 10, which inherits the limitations of claim 9, Chen et al does not expressly teach assigning a first sub-channel code to the first device However in analogous art, Orava teaches assigning the sub-channel code to first device (see paragraph 15). Therefore it would be obvious to an ordinary skilled in the art at the time the invention was made to assign the sub-channel code to first device. The motivation or suggestion to do so is to identify the transmitted data with associated device (see paragraph 0015).

Regarding claim 11, which inherits the limitations of claim 10, Orava further teaches inserting the sub-channel code, that correlates to the first sub-channel code assigned to the first device, into the first data set to be transmitted (see paragraph15).

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Regarding claim 12, which inherits the limitations of claim 9, Orava further teaches assigning a second sub-channel code to the second device (see paragraph 15).

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Regarding claim 13, which inherits the limitations of claim 10, Orava further teaches inserting the sub-channel code, that correlates to the second sub-channel code assigned to the second device into the second data set to be transmitted (see paragraph 15).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jaison Joseph whose telephone number is (571) 272-6041. The examiner can normally be reached on M-F 9:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jaison Joseph 06/08/2007

> CHIEH M. FAN SUPERVISORY PATENT EVANAIA

OUT MAY PATENT EXAMINER